VERSADIAL®
Call Recording Solutions

Technical Layouts

Recording & Wiring

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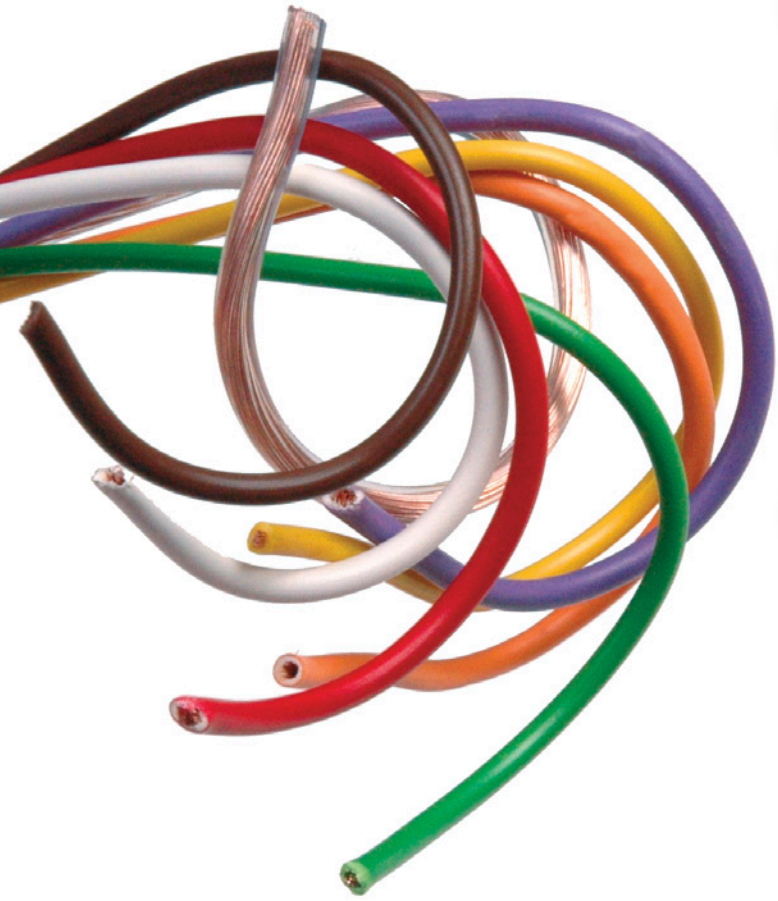

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Email: sales@versadial.com
International Call: +1-949-457-0650
Fax: 1-949-457-0465
Mon. - Fri. 8am-6pm PST

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USA
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Recording Connection Scenarios

Sample Recording Scenarios for VSLogger

Click Below To View Specific Section

- PBX, Trunk and Handset Recording
- Benefits and Drawbacks for each Recording Scenario
- Sample Setups & Uses for a Versadial System

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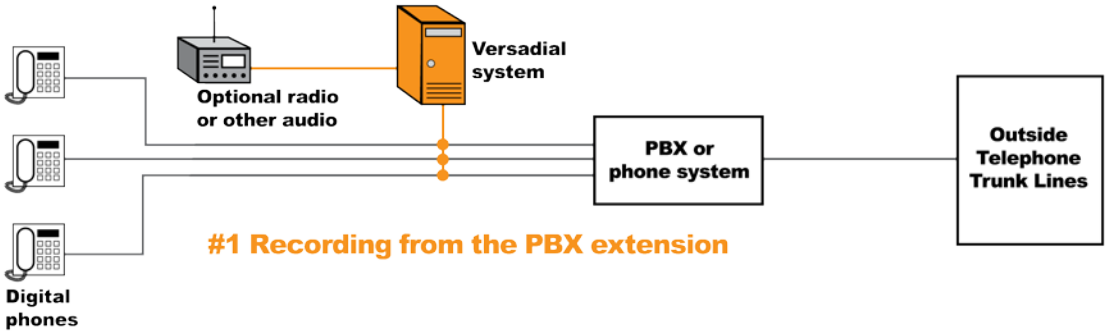
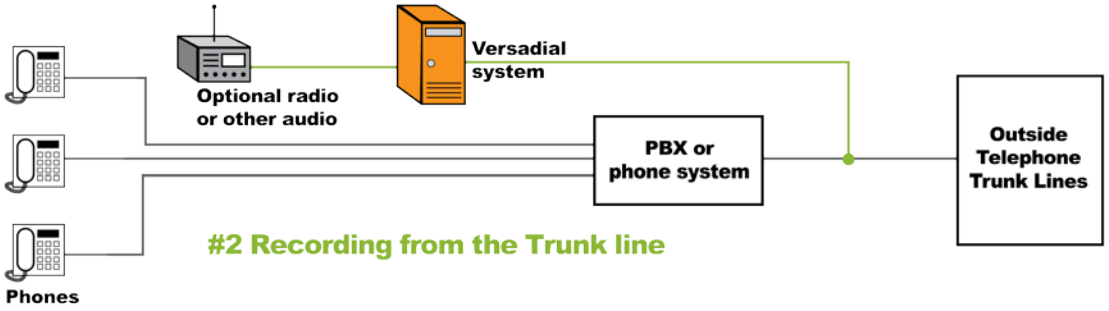
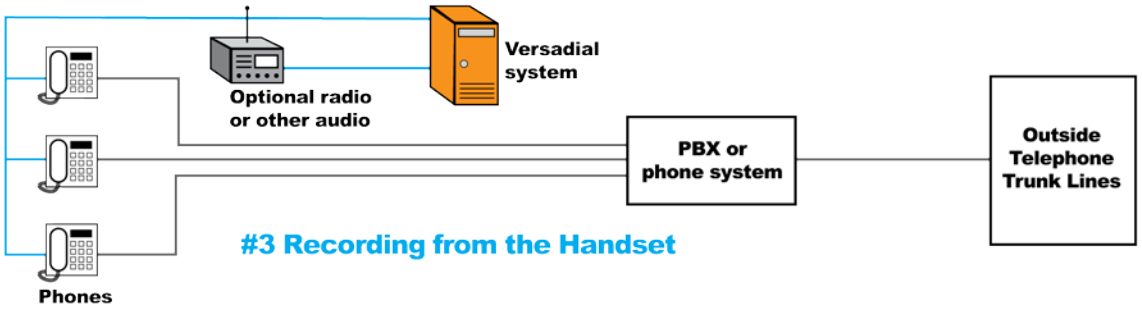
Choose the best way to record: Extension, Trunk, or Handset





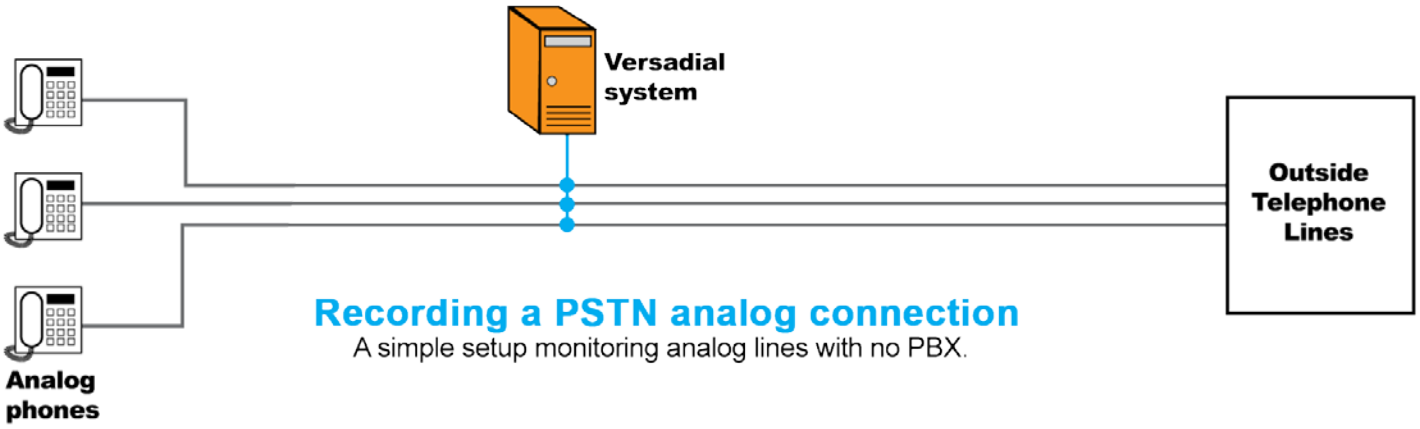


Benefits and Drawbacks Comparison

Recording from the:	#1 PBX extension	#2 Trunk line	#3 Handset
Monitor live recordings	Yes	Yes	Yes
Records transferred extensions	Yes *	Yes	Yes *
Records PBX auto-attendant messages	No	Yes	No
Records internal calls	Yes	No	Yes
Search by caller ID	Yes	Yes	No
Search by trunk line	No	Yes	No
Recordings saved in folders for	Each Extension	Each Trunk Line	Each Handset
Audible beep option on recording	Analog & Digital with Beep Adapter	Analog lines only	With a Beep Adapter
Manual start / stop option	Yes	Yes	Yes
Other notes	The best solution for PBXs on our supported phone list.	Works with all PBXs and phone systems.	Requires wiring to each handset. Call ID & dialed number not captured.

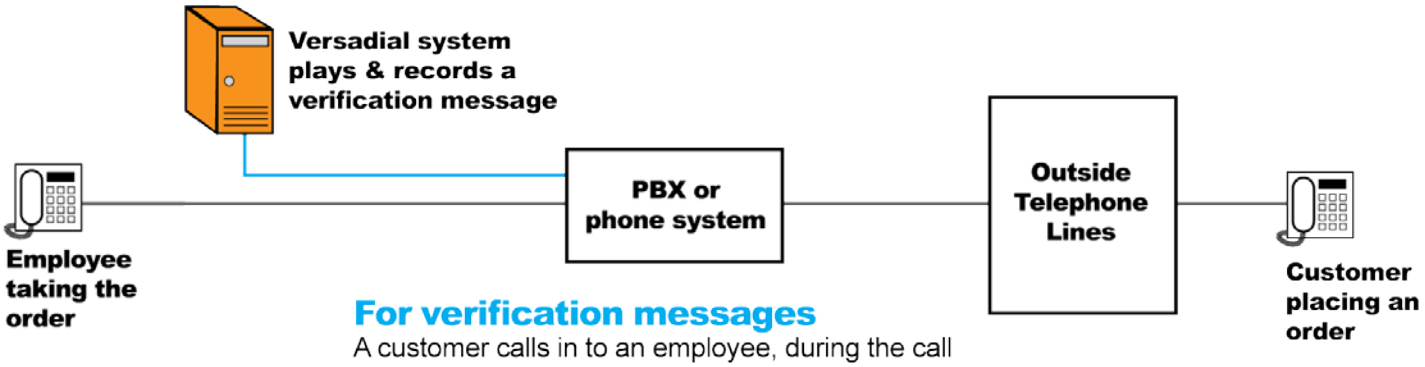
**if the transferred extension is also connected to a recorder

Some sample setups & uses for a Versadial system



Recording a PSTN analog connection

A simple setup monitoring analog lines with no PBX.


Versadial system plays & records a verification message
PBX or phone system
Outside Telephone Lines
Employee taking the order
Customer placing an order

For verification messages

A customer calls in to an employee, during the call the employee can conference call the Versadial system which will give out a confirmation number to the customer and record the call. In this setup the Versadial system uses a terminating analog card.

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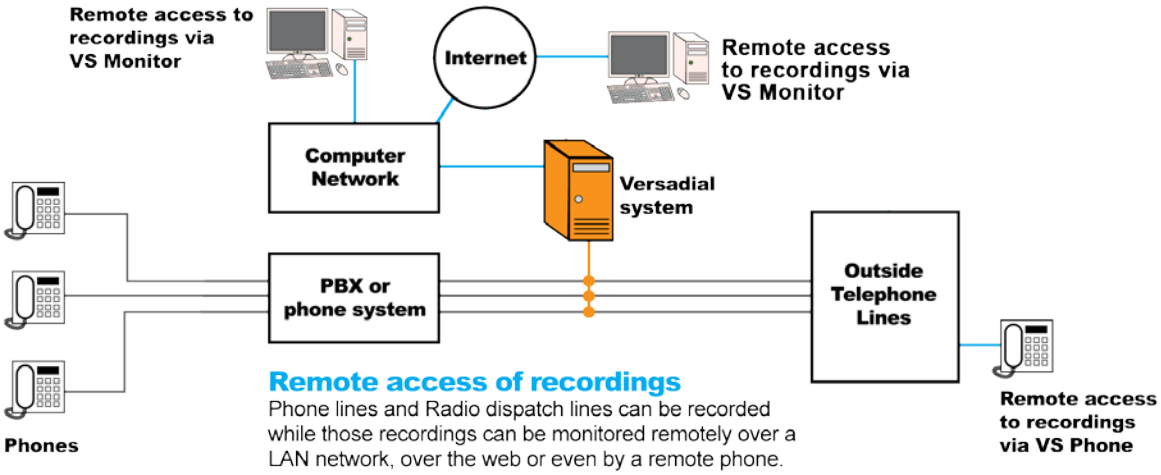
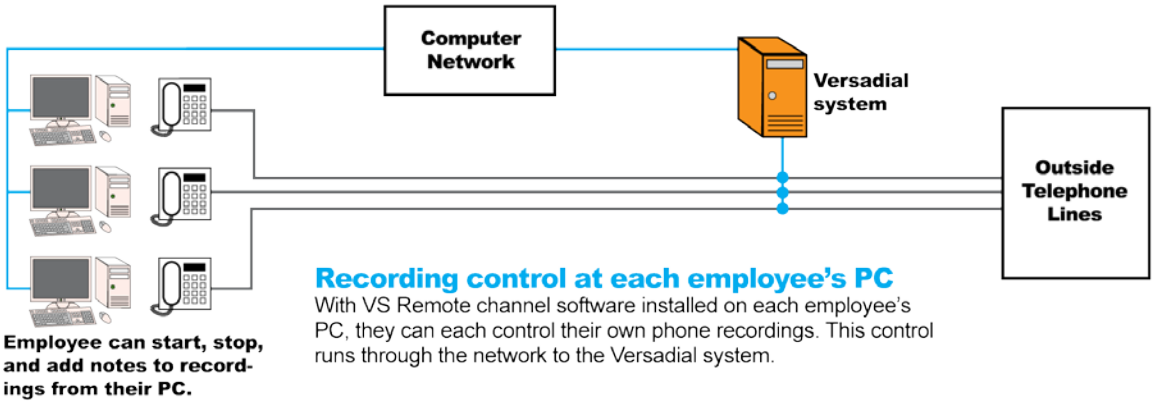
Various sample setups & uses for a Versadial solution



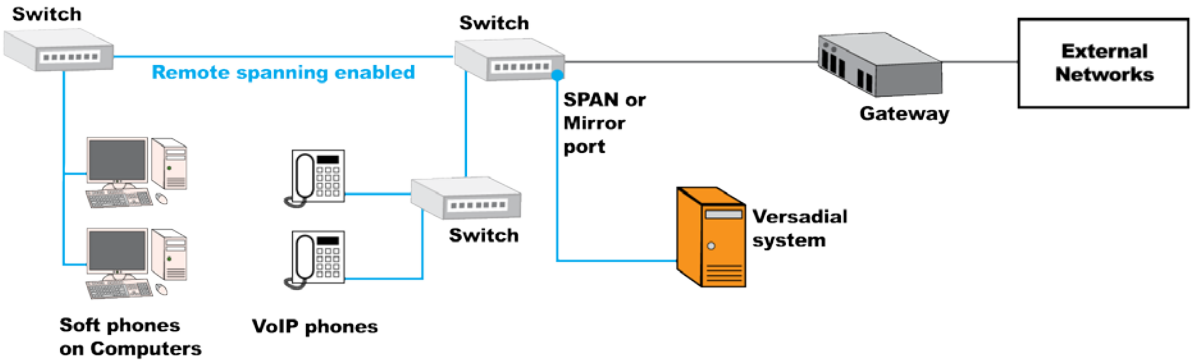
Remote access of recordings

Phone lines and Radio dispatch lines can be recorded while those recordings can be monitored remotely over a LAN network, over the web or even by a remote phone.


Computer Network
Versadial system
Outside Telephone Lines
Employee can start, stop, and add notes to record-ings from their PC.

Recording control at each employee's PC

With VS Remote channel software installed on each employee's PC, they can each control their own phone recordings. This control runs through the network to the Versadial system.



Recording VoIP options

Automatically detect all unencrypted VoIP calls on your network by tapping into the SPAN or Mirror port of a switch. If multiple switches exist then remote SPANNING must be enabled.

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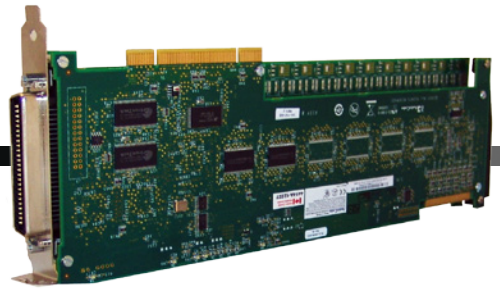


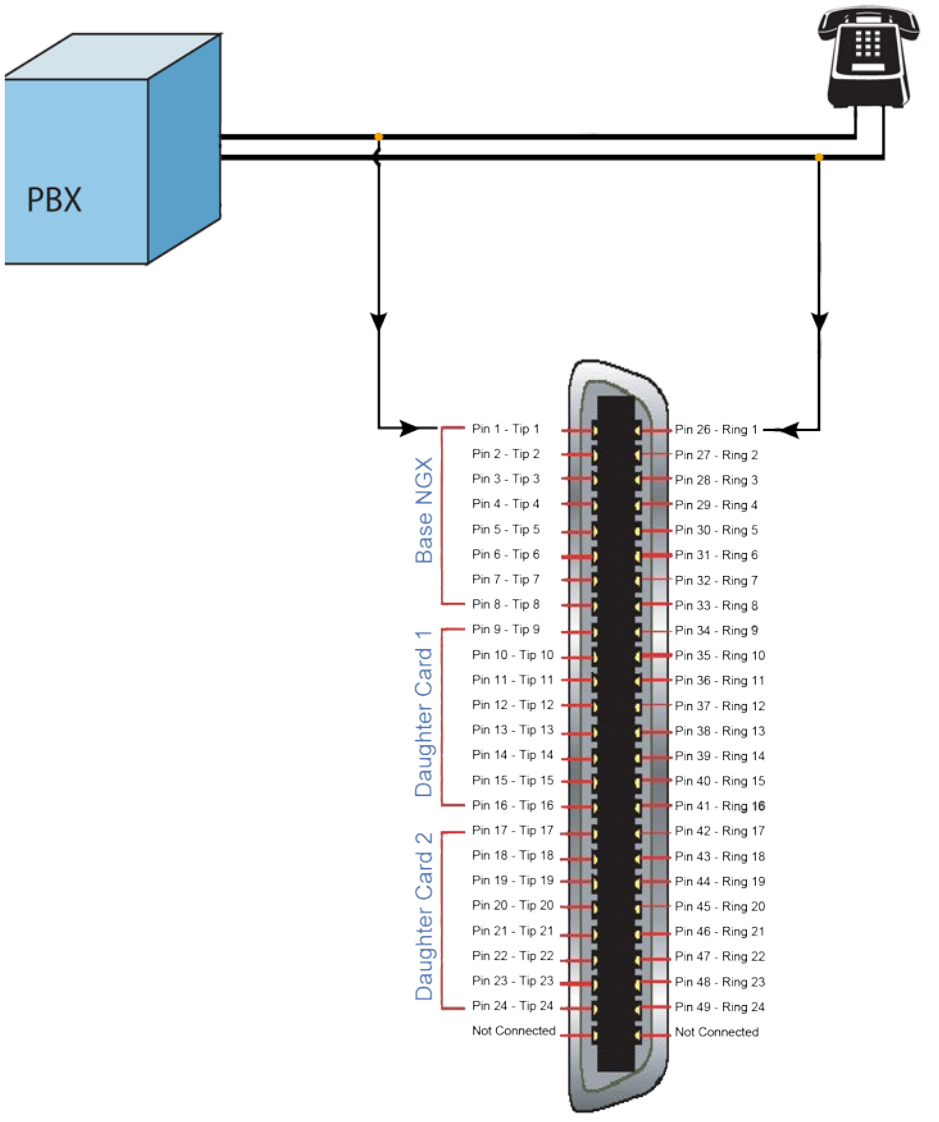
Wiring - Digital PBX

2-Wire Phone Connection

Digital PBX Extension Recording Board with Telco Connector (RJ21), NGX or MOD Boards:

a. Cross-connect extension wires to recording board from PBX punch-down block, in parallel.
Note: This is not from trunk or CO line side, this is from PBX station side

b. Connect telco cable from tap point to recording board, maximum length is 100 feet


PBX
Base NGX
Daughter Card 1
Daughter Card 2
Pin 1 - Tip 1
Pin 2 - Tip 2
Pin 3 - Tip 3
Pin 4 - Tip 4
Pin 5 - Tip 5
Pin 6 - Tip 6
Pin 7 - Tip 7
Pin 8 - Tip 8
Pin 9 - Tip 9
Pin 10 - Tip 10
Pin 11 - Tip 11
Pin 12 - Tip 12
Pin 13 - Tip 13
Pin 14 - Tip 14
Pin 15 - Tip 15
Pin 16 - Tip 16
Pin 17 - Tip 17
Pin 18 - Tip 18
Pin 19 - Tip 19
Pin 20 - Tip 20
Pin 21 - Tip 21
Pin 22 - Tip 22
Pin 23 - Tip 23
Pin 24 - Tip 24
Not Connected
Pin 26 - Ring 1
Pin 27 - Ring 2
Pin 28 - Ring 3
Pin 29 - Ring 4
Pin 30 - Ring 5
Pin 31 - Ring 6
Pin 32 - Ring 7
Pin 33 - Ring 8
Pin 34 - Ring 9
Pin 35 - Ring 10
Pin 36 - Ring 11
Pin 37 - Ring 12
Pin 38 - Ring 13
Pin 39 - Ring 14
Pin 40 - Ring 15
Pin 41 - Ring 16
Pin 42 - Ring 17
Pin 43 - Ring 18
Pin 44 - Ring 19
Pin 45 - Ring 20
Pin 46 - Ring 21
Pin 47 - Ring 22
Pin 48 - Ring 23
Pin 49 - Ring 24
Not Connected

SmartWORKS NGX

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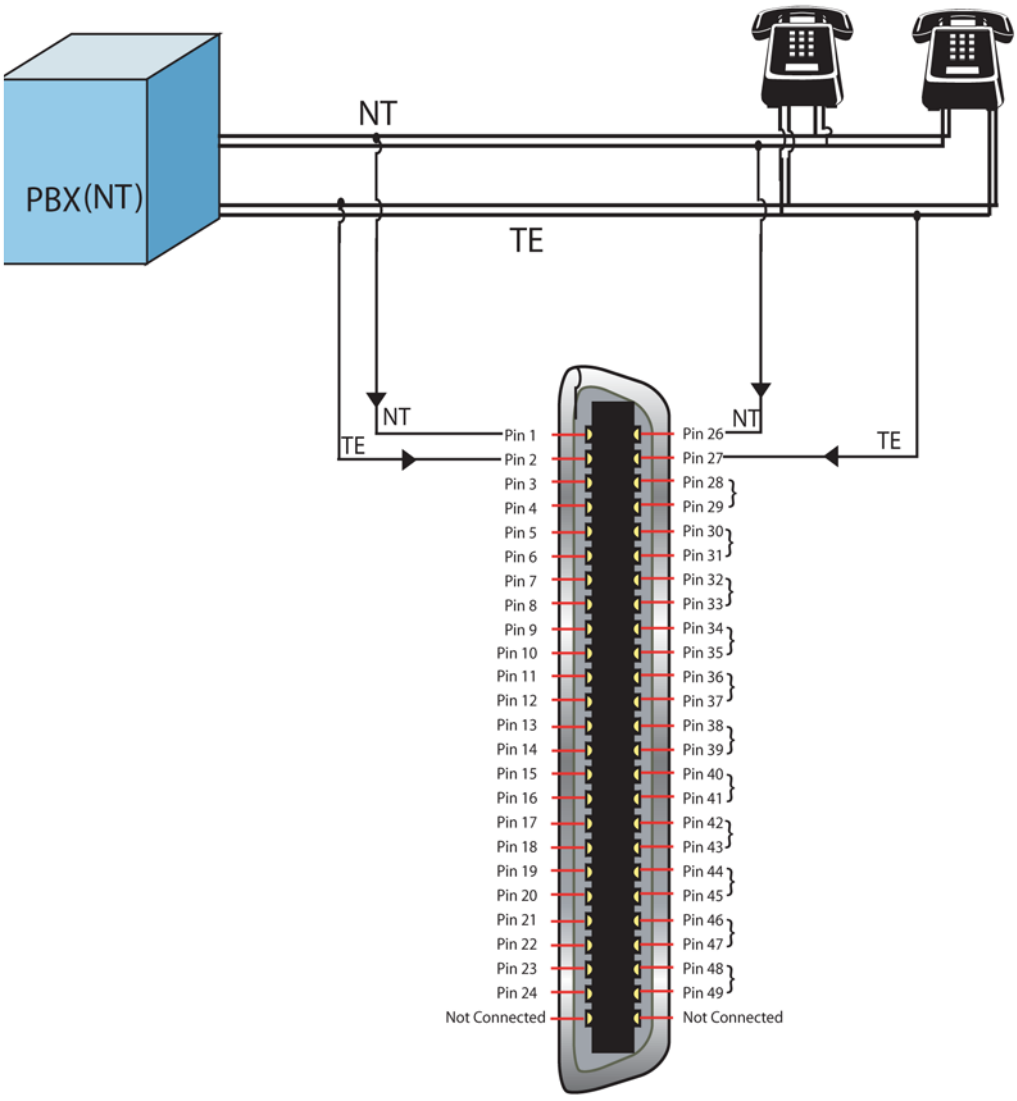
Wiring - Digital PBX

4-Wire Phone or BRI Line Connection

The following is an illustration of the RJ-21 pin connectivity in a 4 wire-scenario. Two phone channels share B-channel resources in a BRI application.



SmartWORKS NGX

Wiring - T1 & E1

Hardware Wiring (T1/E1/PRI/ISDN Recording Board, DP3209 and DP6409)

LINE CONFIGURATION

The SmartTAP DP is a single or dual T1/E1 passive tap board. Board is connected (tapped) to the line between the Central Office-CO and the Customer Premises Equipment-CPE.

PASSIVE TAP

The SmartTAP DP has one or two RJ-45 ports on its front bracket. In a typical configuration, standard Category 5 (Cat 5) network cables connect the DP to recorded T1 trunks.

WHAT ARE THE MAXIMUM TAP CABLE LENGTHS?

The maximum allowable cable lengths of the tap lines are 30 meters for T1 and 16 meters for E1.

HOW DO CHANNELS MAP TO FRAMERS?

Inbound and outbound calls on the T1 line are respectively handled by different framers on the DP. Observe the framers portion of the image located below, which shows Trunk 1 connected to Port 1 on the DP. This means that on a T1 line, channels 1–24 inbound are handled by Framer 0, and channels 1–24 outbound are handled by Framer 1. The same logic applies to trunk 2 and its respective channels (25– 48).

SOME E1 CHANNEL DIFFERENCES

The process of passively tapping E1 trunks is no different than tapping T1 trunks. However, with European telephony there are a few differences in channel numbers and possibly hardware. Instead of Cat 5 cable, some European networking and telephony lines run over standard Coaxial cable. So, a Dual BALUN converter may be necessary to make the switch from Coaxial to RJ-45. Also, if Coaxial is the type of networking cable being used tapping can be done through Coaxial TEE connectors.

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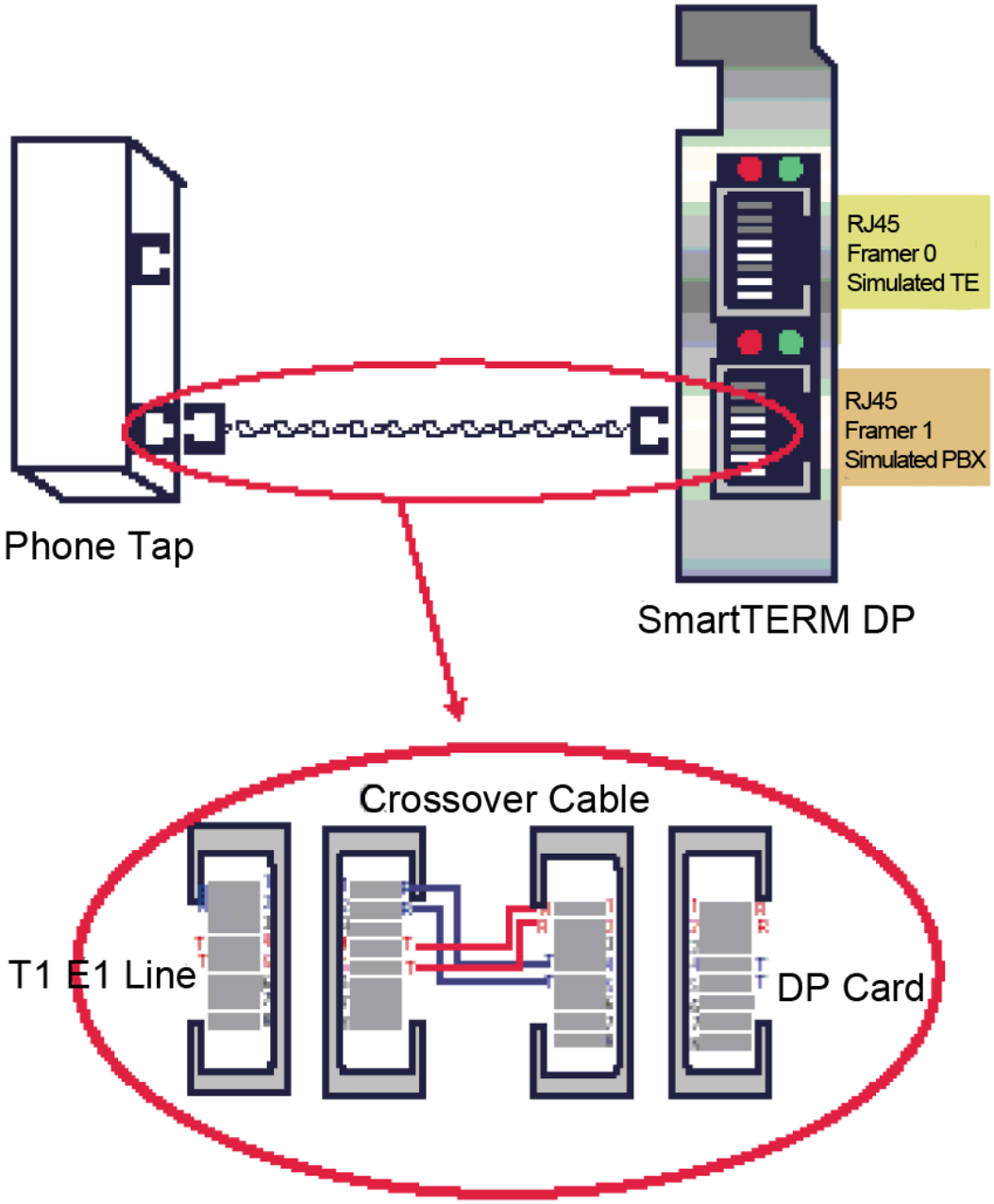
Wiring - T1 & E1

T1 Wiring Diagram #1

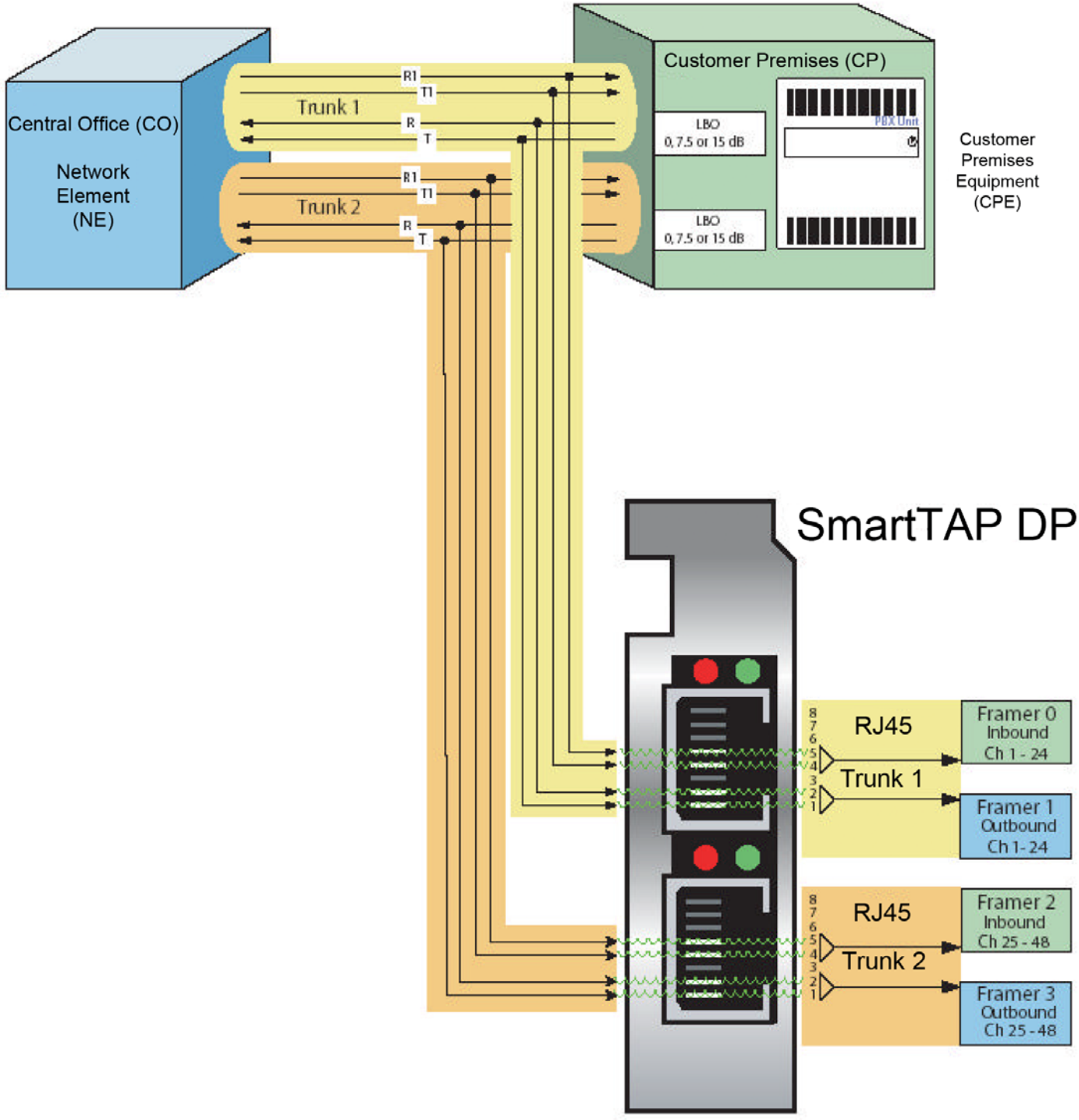


Wiring on T1 Interface

The SmartTAP DP has two RJ-45 ports on its front bracket. In a typical configuration, standard Category 5 (Cat 5) network cables connect the DP to a pair of T1 trunks via a punch-down block or Y splitter. Connecting to the punch-down block may require cable codification. For more information on connecting Cat 5 cables to a punch-down block, refer to the documentation that accompanies your punch-down block.

Wiring - T1 & E1

T1 Wiring Diagram #2



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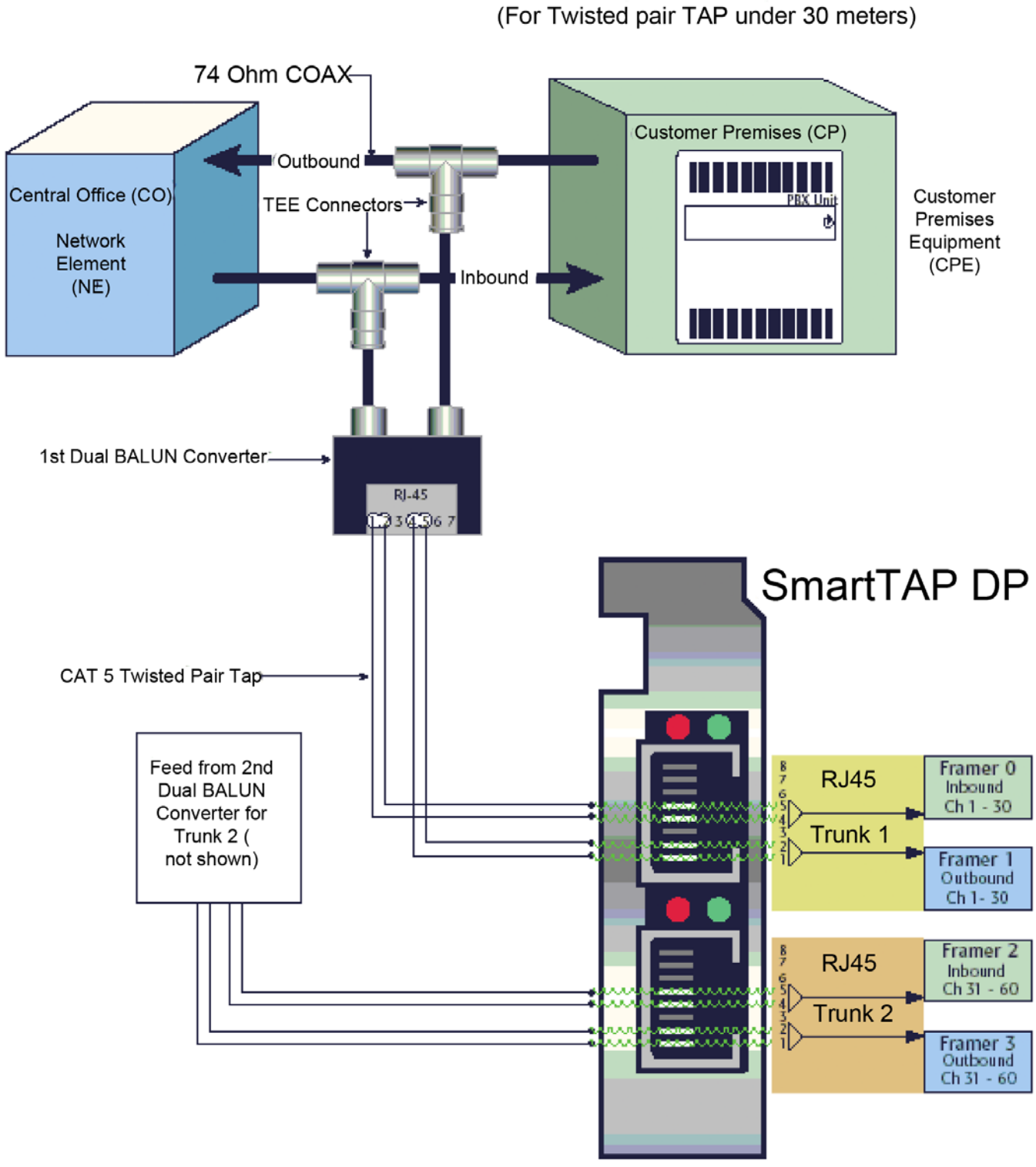
Wiring - T1 & E1

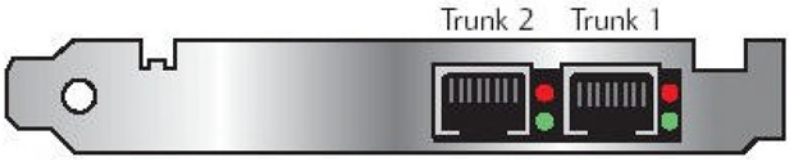
E1 Wiring Diagram



Wiring - T1 & E1

T1 Wiring Diagram #2

Two Trunk Status LEDs per trunk were designed to help troubleshoot installation problems. As shown below, they are located next to the cable connections.



The following table shows possible states of LEDs and describes the state of trunk interface.

Lights	Red	Green	Status
○ ○	OFF	OFF	FramerReset
○ ●	OFF	ON	Normal Operation
● ●	ON	ON	Signal Present & Alarm
● ○	ON	OFF	No Signal, Framer Started

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Wiring - Analog

Hardware Wiring (analog boards with Telco Connector, LDA809x, LDA1609, LDA2409, MOD-A)

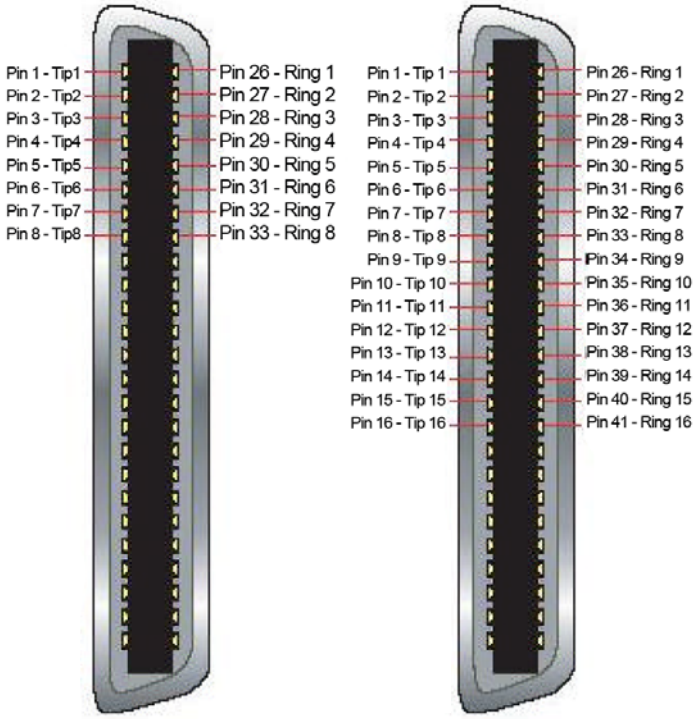
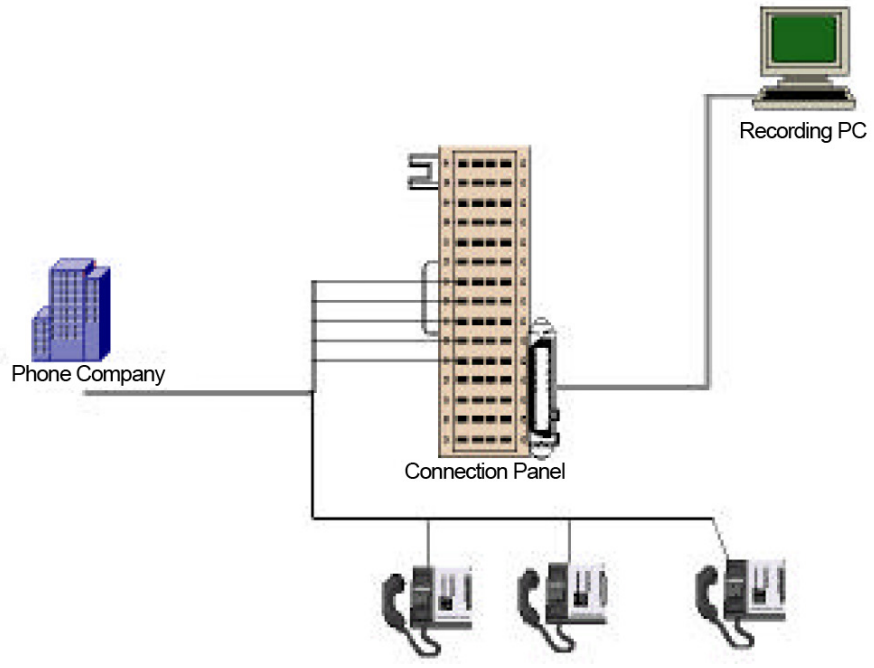

Pin 1 - Tip1
Pin 2 - Tip2
Pin 3 - Tip3
Pin 4 - Tip4
Pin 5 - Tip5
Pin 6 - Tip6
Pin 7 - Tip7
Pin 8 - Tip8
Pin 26 - Ring 1
Pin 27 - Ring 2
Pin 28 - Ring 3
Pin 29 - Ring 4
Pin 30 - Ring 5
Pin 31 - Ring 6
Pin 32 - Ring 7
Pin 33 - Ring 8
Pin 1 - Tip 1
Pin 2 - Tip 2
Pin 3 - Tip 3
Pin 4 - Tip 4
Pin 5 - Tip 5
Pin 6 - Tip 6
Pin 7 - Tip 7
Pin 8 - Tip 8
Pin 9 - Tip 9
Pin 10 - Tip 10
Pin 11 - Tip 11
Pin 12 - Tip 12
Pin 13 - Tip 13
Pin 14 - Tip 14
Pin 15 - Tip 15
Pin 16 - Tip 16
Pin 26 - Ring 1
Pin 27 - Ring 2
Pin 28 - Ring 3
Pin 29 - Ring 4
Pin 30 - Ring 5
Pin 31 - Ring 6
Pin 32 - Ring 7
Pin 33 - Ring 8
Pin 34 - Ring 9
Pin 35 - Ring 10
Pin 36 - Ring 11
Pin 37 - Ring 12
Pin 38 - Ring 13
Pin 39 - Ring 14
Pin 40 - Ring 15
Pin 41 - Ring 16

Diagram shows the 50-pin high impedance analog trunk RJ-21 connector, which is used to interface board to a standard Telco punch-down block or breakout box. As shown in the diagram, pins 1 to 16 of the connector connect to Rings 1 to 16 on the punch-down block while pins 26 to 41 connect to Tips 1 to 16. For 8-channel board, only pins 1-8 and 26-33 need to be connected.

Run parallel phone lines to punchdown 66-block, and from punch block, connect telco cable to recording board

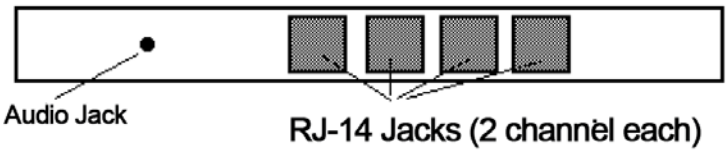


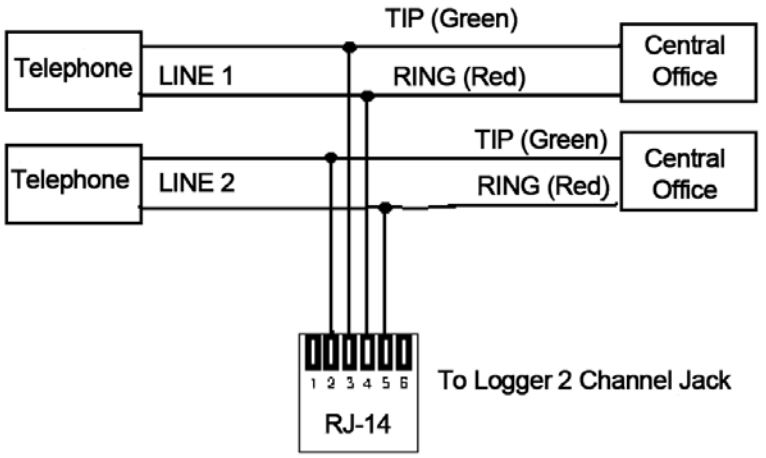
Wiring - Analog

Hardware Wiring (LDA409, LDA809)

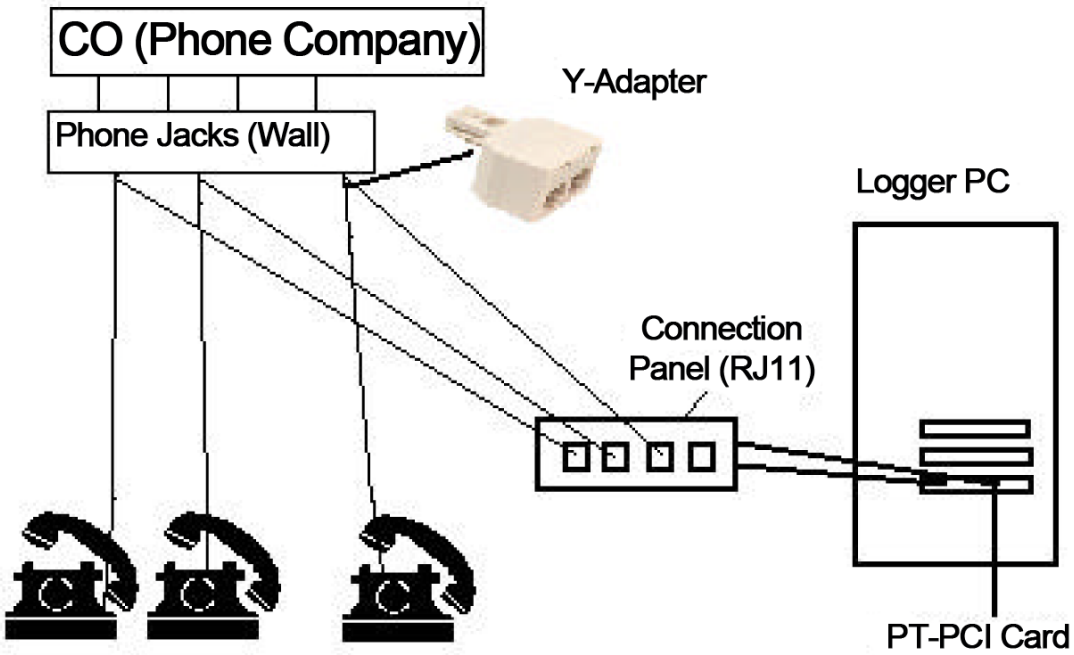
Connecting Phone/Audio Lines

In the back of LDA409, LDA809 cards are RJ14 jacks; each jack supports 2 channels/lines (See diagram). If each of your line is one channel (2-wire), then you will need a connection panel (RJ11) from Versadial to convert each RJ14 jack into two RJ11 jacks.





Split your analog line with Y-adapter and run the one line to the connection panel (RJ11) and other line to your phone. You can also run parallel wires from your punch-block to the connection panel (RJ11).



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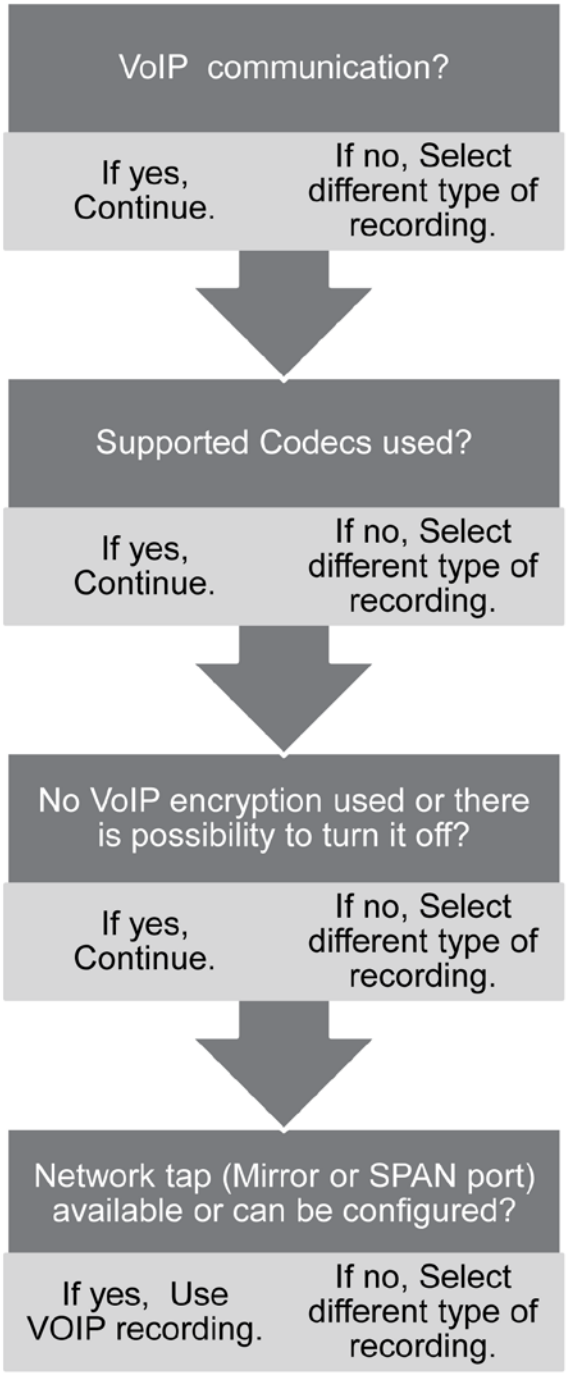
Passive VoIP Recording Checklist

Before Voice Over Internet Protocol (VoIP) extension recording can be offered, a site survey at the customer site must be performed to determine the possibilities. The following flowchart will help you to determine if and when VoIP extension recording is possible. The step-by-step diagram poses questions for you to answer in order to understand the VoIP extension recording. When VoIP extension recording is not possible, the alternative could be trunk side recording.


VoIP communication?
If yes, Continue.
If no, Select different type of recording.
Supported Codecs used?
If yes, Continue.
If no, Select different type of recording.
No VoIP encryption used or there is possibility to turn it off?
If yes, Continue.
If no, Select different type of recording.
Network tap (Mirror or SPAN port) available or can be configured?
If yes, Use VOIP recording.
If no, Select different type of recording.

VoIP communication

VoIP is the new architecture that provides some unique challenges for recording solutions. The functional components are distributed around IP networks that are unlike traditional PBX environments, in such that there is no centralized point to capture the audio such as at a MDF in traditional technology.

Codecs

Versadial VSLogger supports following audio codecs G.711, G.729A, G722 (wideband Cisco). The G.729a, codec needs additional licenses. If the codec is not listed at this support section, contact Versadial for availability.

Using a compression codec (G729) requires extra processing power and can reduce the maximum number of recorded channels per recording server.

Encryption

Versadial VSLogger doesn't support passive recording of encrypted VoIP. The only option is to turn encryption off. There are several encryption possibilities like IP-SEC, VoIP audio encryption, VoIP signaling encryption. Some switches encrypt VoIP signaling without the option to turn encryption off, then recording of audio is still possible, but some of the call information (dialed number etc.) could be lost.

Passive VoIP Recording Checklist

NETWORK TAP

Network taps (SPAN ports or Mirror ports) are used to create permanent access ports for passive monitoring. The traffic to and from a number of network devices (VoIP telephones) is copied to a single port of a network switch. Usually, this port could be any of the switch ports; the port is simply configured as SPAN port. This SPAN port allows customers to record several VoIP telephones by spanning the VoIP telephones to this particular port on the network switch. The network switch might have the option to SPAN traffic received (Rx) and/or send (Tx) per network device. In this case there are two configurations possible:

1) SPAN all received traffic (Rx) for all VoIP phones AND the Call Manager.
2) SPAN all received (Rx) AND send (Tx) traffic only for all VoIP phones/extensions.
Option 2 is preferred as it only SPANS the traffic for the recorded VoIP telephones.

VLAN

In order to make the SPAN port configuration easier, a VLAN is useful. In practice, some customers will already use a separate VLAN for VoIP traffic for QoS purposes. QoS stands for 'Quality of Service' and is used to prioritize network traffic to guarantee sufficient bandwidth for VoIP telephony. A VLAN is a 'logical' group in the network. All traffic from this group could be recorded by SPANNING this VLAN. When a customer adds more phones to this VLAN they are automatically put on the SPAN port.

RSPAN

RSPAN stands for REMOTE SPANNING. This is used to put traffic on a SPAN port from different network switches. In case more switches are used in a building, all VoIP traffic is put on one SPAN port on a singe network switch. In order to do so the following steps must be taken:

1) Create a VLAN and configure this VLAN as REMOTE SPAN VLAN.
2) All network switches must have this VLAN using the same VLAN name.
3) Put all VoIP devices on this VLAN either by spanning per network device or by a local
4) VLAN with all devices, which is spanned to the remote SPAN VLAN.
5) Create a SPAN port spanning the REMOTE SPAN VLAN on one of the switches.
6) This SPAN port will output all network traffic from the several switches.

This technology is also used to record multiple sites with a central recorder. In this case bandwidth (WAN) is an issue and audio compression is no expectance.

KNOWN SPAN/SWITCH ISSUES:

Many of Cisco switches support SPAN. Some more expensive switches support the RSPAN technology. Several other brands only support PORT MIRRORING. This technology copies the traffic from a single network device to a specific switch port. Number of the mirrored ports can be limited. Your ability to record VoIP greatly depends on your ability to SPAN/Mirror traffic from the recorded devices to single network tap. To request help from the Versadial support team please provide following details:

- Network Switch Vendor (Cisco,Nortel, 3Com, D-Link etc) and Switch Type/Model
- Network Switch Firmware, SPAN /Mirror Limitations
- VoIP system to be recorded
- If trunk side recording is an option for this customer

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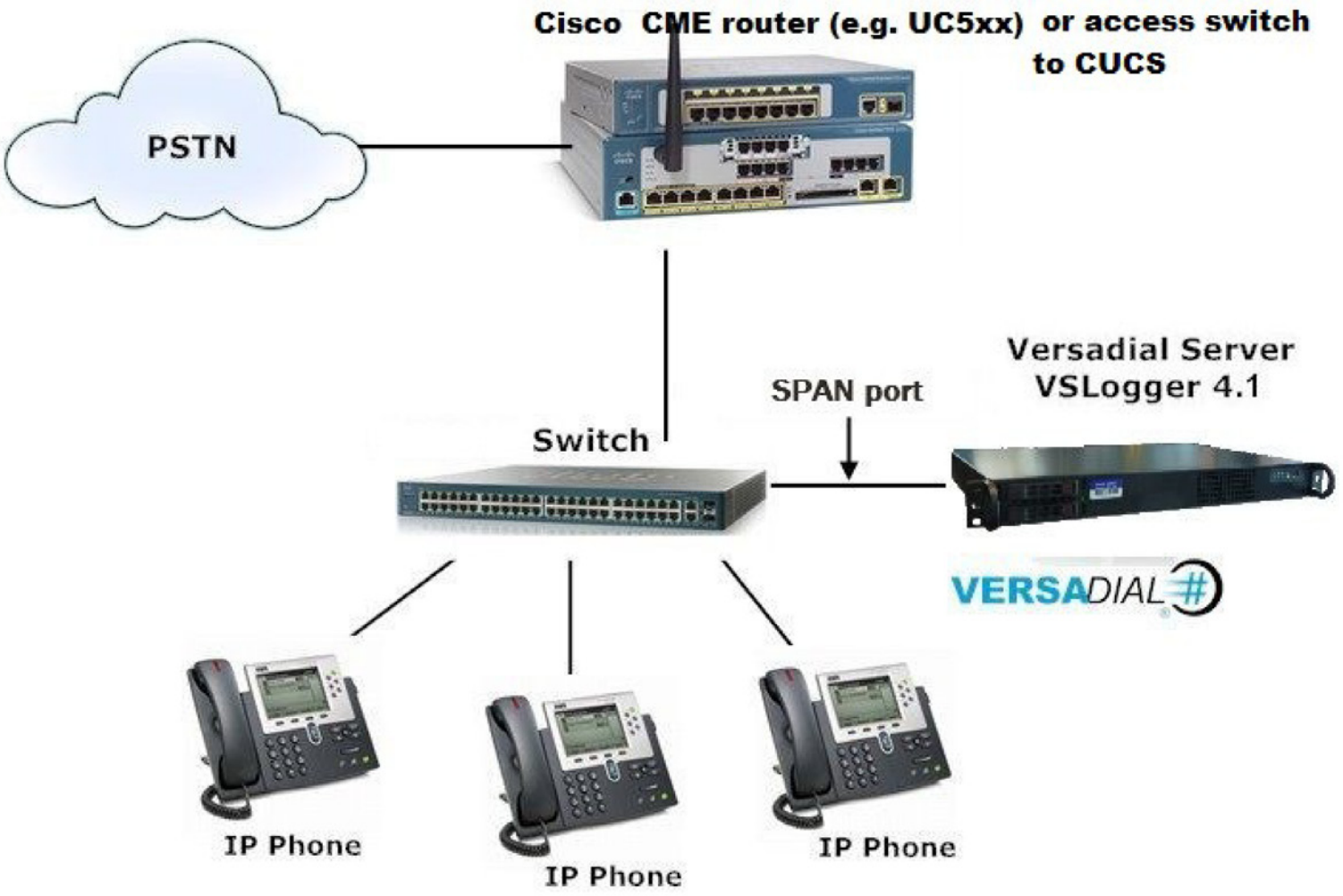
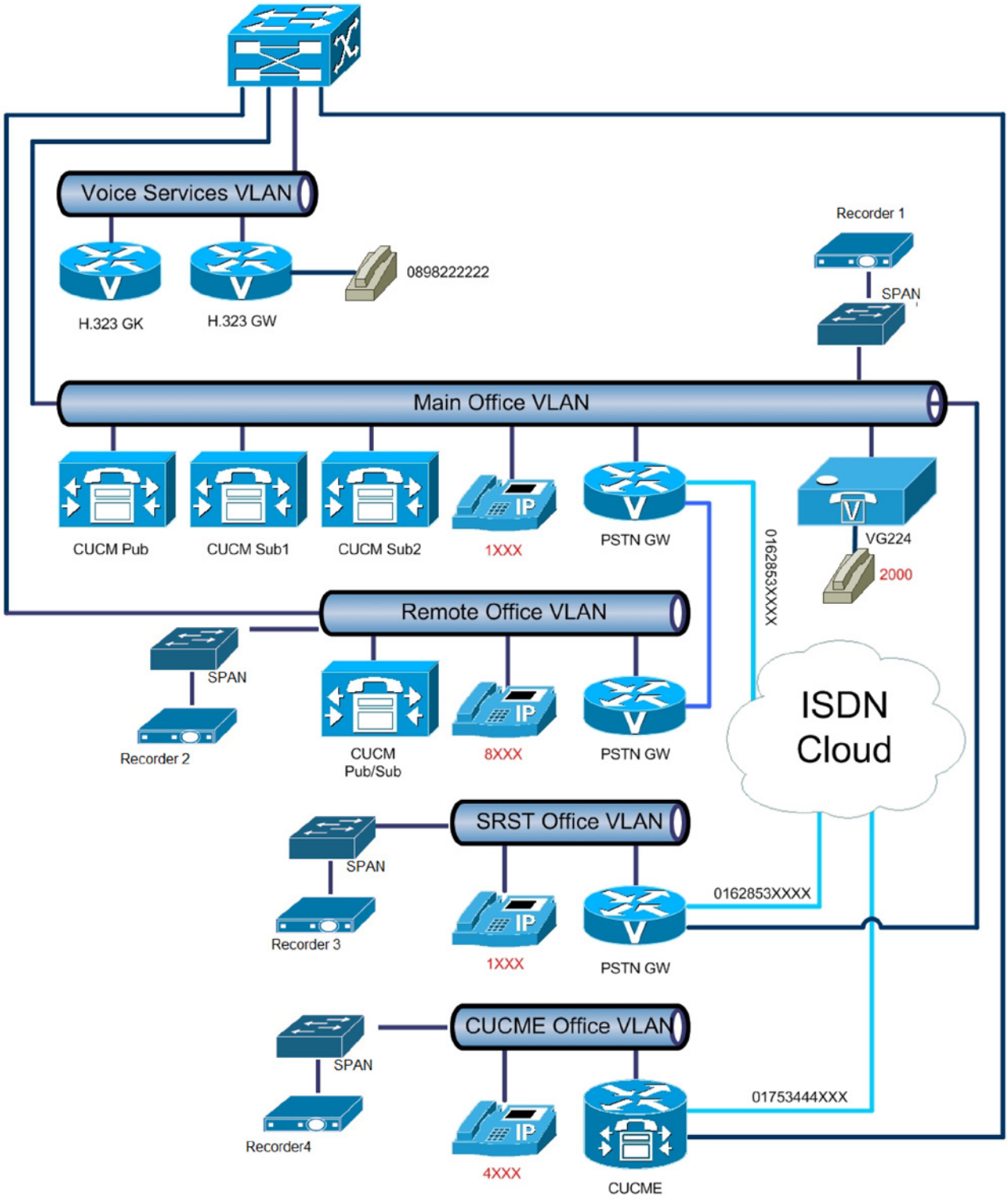
Passive VoIP Recording Checklist

Cisco CME deployment Model



Passive VoIP Recording Checklist

Cisco CUCM Deployment models



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Supported Digital PBXs and Phone Models

Aastra Ascotel Intelligate 300, 2065
Aastra Office 25
Aastra Office 35
Aastra Office 45
Aastra Office 60 (Office 5360)
Aastra Office 70 (Office 5370)
Aastra Office 80 (Office 5380)
Aastra NexSpan XS
i760E
i740N **Aastra Nexpan**
M725E
M740E
M760E

Alcatel 4200
Alcatel OmniPCX 4400
4049
4022 IP e-Reflexes Premium (4020 + HW)
4037 IP e-Reflexes Advanced (4035 + HW)
IP Touch 4008
IP Touch 4018
IP Touch 4028
IP Touch 4038
IP Touch 4068
PIMphony (Basic / Pro / Team)
4980 Softphone
IP MyPhone
Reflex 4019 (9-series)
Reflex 4029 (9-series)
Reflex 4039 (9-series)
4004 Reflex First
4010 Reflex Easy
4020 Reflex Premium
4035 Reflex Advanced
Reflex 4003
Reflex 4011
Reflex 4012
Reflex 4023
Reflex 4034
Reflex 4039
Reflex 4004 First
Reflex 4010 Easy
Reflex 4020 Premium
Reflex 4035 Advanced
Reflex 4059 PC Operator

Alcatel 4300
4304
4321
4049 console
4059 console

Ascom Ascotel 2020 (2 Wire)
Office 20
Office 30
Office 40
Office 25
Office 35
Office 45/45 Pro
Office 130/130 Pro

Ascom Ascotel 2020 (4 Wire)
Crystal Series
Aspect ACD System
Teleset 3010
Teleset 3190
Teleset 3192

Avaya DEFINITY (2 wire)
XM24 Module
302B/C/D Console
54xx Series
64xx Series
84xx Series
302 Attendant Console
6402
8403
8405
6408
8410
8411
8434
6402 display
6408 display
6416 display
6424 display
603E Call Master III
603H Call Master IV
607A Call Master V
606A Call Master VI
6210
6218
6220
6221
8101
8102
8110
8503
8510
8520
8528
24xx series

Avaya DEFINITY (4 wire)
7400 Series
8400 Series
302A/B/C console
301B console
CallMaster V
7401
7403
7405
7406
7407
7410
7434
7444
8403
8405
8410
8411
8434
603A Call Master II
603E Call Master III
603F Call Master IV
602A Call Master I
8101
8102
8110
7303
7305
8503
8510
8520
8527

Avaya DEFINITY 4W (5ESS Ext.)
8510 ISDN
8520 ISDN
8528 ISDN
75xx Series

VERSADIAL®
Call Recording Solutions

Supported Digital PBXs and Phone Models

Avaya INDeX
INDeX DT1
INDeX DT4
INDeX DT6
INDeX 2010
INDeX 2050
INDeX 2060
INDeX 20CC
DT3
2030
2050
INDeX DT3
INDeX DT5
INDeX 2030

Avaya Merlin Magix
4400
4400D
4406D+
4412D+
4424D+
4424LD+
Magix MLX

Avaya Merlin Magix MLX (BRI)
NGX:
MLX5
MLX5 display
MLX10
MLX10 display
MLX20L
MLX28 Display
MLX Series

Avaya S8300 2 wire
2400 Series
6400 Series
8400 Series
Call Master III (603E)
Call Master IV (603H)
Call Master V (607A)
Call Master VI (606A)
302C/D console

Avaya S8800
1400 Series
2400 Series
302B/C/D Console

Bosch (Tenovis) Integral 3 (4 wire)
TB13
TE13
TH13
TM13
TS13

Bosch (Tenovis) Integral 5D (2 wire)
T3 Compact
T3 Classic
T3 Comfort
TB13
TE13
TH13
TS13
TH93
TH93C

Bosch (Tenovis) Integral 55D
OS33 - operator set
TB13
TE13
TH13
TS13
TH93
TH93C
T3 Classic
T3 Comfort

Comdial Impact
EADS (Aastra) Intecom E 2-wire
ITE 12SD
ITE 30SD
ITE 760

Comdial Impact
EADS (Aastra) Intecom E 4-wire
TE30SD
TE24B

EADS (Aastra) Matra M6500
MC401
MC405E
MC420E
MC430E
MC520
MC520N
MC640
M720
M730
M740
M760
M760PO

eOn Millenium
eOn eQueue
501200-750
501200-001
501800-001
500600-001
500600-750
503000-001
503800-001

Ericsson Business Phone
Ericsson 50/250 (MD150 in Asia#)
Ericsson MD110
Ericsson MD110 / MX-One (Voip)
Dialog4224 (DBC224)
Dialog 5446 IP Premium
Communication Client Softphone
BackStage Softphone
DBA706
Dialog3201 (DBC201)
Dialog3202 (DBC202)
Dialog3203 (DBC203)
Dialog3211 (DBC211)
Dialog3212 (DBC212)
Dialog3213 (DBC213)
Dialog2501 (DBC501)
Dialog2563 (DBC562)
Dialog2601 (DBC601)
Dialog2631 (DBC631)
Dialog2661 (DBC661)
Dialog2662 (DBC662)
Dialog4220 (DBC220)
Dialog4222 (DBC222)
Dialog4223 (DBC223)
Dialog4225 (DBC225)
DBC199
Operator Workstation (OWS)
Operator Console (OPI II)
Operator Console (OPI 3213)
Trader Panel CTT10 / CTT11
Trader Panel TIU
DBC201/211 (Dialog 3201/3211)

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Supported Digital PBXs and Phone Models

DBC202/212 (Dialog 3202/3212)
DBC203/313 (Dialog 3203/3213)
DBC210 (Dialog 3210)
DBC214 (Dialog 3214)
DBC601 (Dialog 2601)
DBC631 (Dialog 2631)
DBC661 (Dialog 2661)
DBC662 (Dialog 2662)
Business Phone Sets
DBC220 (Dialog 4220 LITE)
DBC222 (Dialog 4222 Office)
DBC223 (Dialog 4223 Professional)
DBC224 (Dialog 4224 Operator)
DBC225 (Dialog 4225 Vision)

ESI 100
24 KEY DFP
24 KEY DFP
48 KEY H DFP
48 KEY H DFP

Fujitsu F9600v
F10B-0816-B001
F10B-0791-B001
F10B-0794-B001
F10B-0789-B001
F10B-0790-B001

Harris H2020
Optic 1 Teleset
Console

Harris Map
Optic 32

Inter-tel AXXESS KTS (Vision)
520.4300 Basic
550.4000 Standard
550.4100 Executive
550.4400 Standard
550.4500 Executive
560.4101 Basic
560.4201 Associate
560.4301 Professional
550.4000 Standard Display Phones
550.4100 Executive Display Phone
550.4300 Basic Phone
550.4400 Standard Display Phone
550.4500 Executive Display Phone
550.8500 Basic Digital Phone
550.8520 Standard Display Phone
550.8560 Executive Display Phone
551.4400
551.4100

Inter-Tel 5000
Inter-Tel CS5200
8520
8560

1TR6 Germany

ISDN BRI 5ESS (AT&T)
8500
8560

ISDN BRI Definity (at&t custom)

ISDN BRI DMS-100 (Nortel)

ISDN BRI Euro-ISDN (Europe)

ISDN BRI INS64 (Japan)

ISDN BRI NI-1 (North America)

Iwatsu ADIX-E
IX-12KTD-2
IX-12KTD-3

Iwatsu Enterprise-CS
Icon 5800

LG Aria LG Aria
LKD-2NS (2 button Non-Display Keyphone)
LKD-8DS (8 button Display Keyphone)
LKD-30D (30 button Display Keyphone)
LKD-30LD (30 button Large-Display Keyphone)
LDP-7004D (4-Button Non-Display Keyphone)
LDP-7008D (8-Button Display Keyphone)
LDP-7016D (16-Button Display Keyphone)
LDP-7024D (24-Button Display Keyphone)
LDP-7024LD (24-Button Large Display Keyphone)
LGP-xxx

LG (Lucky Goldstar) Starex
LGP-30D

Mitel SX2000, SX200
Superset 410
Superset 420
Superset 430
Superset 401+
Superset 4001
Superset 4015
Superset 4025
Superset 4125
Superset 4150
Superset Console 1000

Nakayo

NEC Apex 3600
ETJ-16S

NEC Aspire
Model 0890041 (22 Button No Display)
Model 0890043 (22 button w/ Display)
Model 0890045 (34 button w/ Display)
IP1WW-DSLT (NEC Aspire)
IP1WW-12TH (NEC Aspire)
IP1WW-12TXH (NEC Aspire)
IP1WW-24TXH (NEC Aspire)
IP1WW-24TSXH (NEC Aspire)
DX2E (series2.0) DSLT Basic (Nitsuko)
DX2E (series2.0) 12BT XX (Nitsuko)
DX2E (series2.0) 24BT XX (Nitsuko)
DX2E (series2.0) 12 Standard (Nitsuko)
DX2E (series2.0) 12 Display (Nitsuko)
DX2E (series2.0) 24 Display (Nitsuko)
DX2E (series2.0) 24 Superdisplay (Nitsuko)

NEC DSX-80
66113707-G (22-button)
66103607-G (34-button)
10900xx series

Supported Digital PBXs and Phone Models

NEC Electra Elite
DTL-2E-1 (DT310 Series)
DTL-6DE-1 (DT310 Series)
DTL-8LD-1 (DT330 Series)
DTL-12D-1 (DT330 Series)
DTL-12PA-1 (DT330 Series)
DTL-24D-1 (DT330 Series)
DTL-32D-1 (DT330 Series)
DTP 8D-1A (Dterm series E)
DTP-32DE-1 (Dterm series E)
DTR-2-1 (Dterm Series i)
DTR-4D-1 (Dterm Series i)
DTR-8-1 (Dterm Series i)
DTR-8D-1 (Dterm Series i)
DTR-16D-1 (Dterm Series i)
DTR-16LD-1 (Dterm Series i)
DTR-32D-1 (Dterm Series i)
DTP-32DA-1 (DtermSeriesE)
DTP-32D Series E (75)
DTP-16D Series E (75)
DTU-32D Elite
DTU-16D Elite
DTP-8D Series E (75)
DCU 60 (add on)
DTP-8-1
DTP-16-1
DTP-8D-1
DTP-16D-1
DTP-32D-1
DTP-32DE-1
DTU-8-1
DTU-16-1
DTU-32-1
DTU-8D-1
DTU-8D-2
DTU-16D-1
DTU-16D-2
DTU-32D-1
DTU-32D-2
ETJ-8-2
ETJ-16DC-1
ETJ-16DC-2
ETJ-16-2DD

NEC NEAX 2000
NEC NEAX 2400 IMS
NEC NEAX 2400 IPK
NEAX 1000

NEC Professional
DTL-24-1 (DT 300)
Dterm8D DtermSeries75
Dterm8 DtermSeries75
Dterm32D DtermSeries75
Dterm16D DtermSeries75
Dterm Series 3 (32 button)
DTR 8D-2 Dterm Series I
DTR 8D-1 Dterm Series I
DTR 8-1 Dterm Series I
DTR 32D-1 Dterm Series I
DTR 2DT-1 Dterm Series I
DTR 16D-1 Dterm Series I
DTP-32DA-1 (DtermSeriesE)
DTP-32D-1 (DtermSeriesE)
DTP-16D-1 (DtermSeriesE)
DTP 8D (DtermSeriesE)
Dterm Series 3 (16 button)
DCU 60 (add on)
DTP-8-1
DTP-16-1
DTP-8D-1
DTP-16D-1
DTP-32D-1
DTP-32DE-1
DTU-8-1
DTU-16-1
DTU-32-1
DTU-8D-1
DTU-8D-2
DTU-16D-1
DTU-16D-2
DTU-32D-1
DTU-32D-2
ETJ-8-2
ETJ-16DC-1
ETJ-16DC-2
ETJ-16-2DD

NEC NEAX 2400 IPX
DTR 2D-1 Dterm Series I
DTR 8D-1 Dterm Series I
DTR 16D-1 Dterm Series I
DTR 32D-1 Dterm Series I
DTU-16D Elite
DTU-32D Elite
ETJ-16DC Series III
DTP-16D Series E (75)
DTP-32D Series E (75)
DTP-8D Series E (75)

NEC NEAX 1000
DTP 8D
DCU 60 (add on)
DTP-8-1
DTP-16-1
DTP-8D-1
DTP-16D-1
DTP-32D-1
DTP-32DE-1
DTU-8-1
DTU-16-1
DTU-32-1
DTU-8D-1
DTU-8D-2
DTU-16D-1
DTU-16D-2
DTU-32D-1
DTU-32D-2
ETJ-8-2
ETJ-16DC-1
ETJ-16DC-2
ETJ-16-2DD

NEC Professional
DTP-32DA-1 (DtermSeriesE)
DTP-32D Series E (75)
DTP-16D Series E (75)
DTU-32D Elite
DTU-16D Elite
DTP-8D Series E (75)
DCU 60 (add on)
DTP-8-1
DTP-16-1
DTP-8D-1
DTP-16D-1
DTP-32D-1
DTP-32DE-1
DTU-8-1
DTU-16-1
DTU-32-1
DTU-8D-1
DTU-8D-2
DTU-16D-1
DTU-16D-2
DTU-32D-1

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Supported Digital PBXs and Phone Models

DTU-32D-2
ETJ-8-2
ETJ-16DC-1
ETJ-16DC-2
ETJ-16-2DD

NEC SV8100/8300
Dterm 75 Series
Dterm 85 Series
DTP-xx-D
DT300 (DLV(XD)Z-Y(BK)

Nitsuko (now NEC) DX2E, DXE 32, DX32 i-PABX, i-Series
DX2ET-16TXH (SERIES-1)
DX2E-12BTH (SERIES-2.0)
DX2ET-TXH
DX2E-16T-LC2
DX2ET-24TSXH
I-series

Nortel DMS-100

Nortel Matra
MC401
MC405
MC420
MC520
MC620
MC640
M720 Aastra Matra
M730 Aastra Matra
M740/E Aastra Matra
M760/E Aastra Matra
M780 Aastra Matra

Nortel Meridian 1
2006
2008
2216
2250
2317
2616
3820
3901
3902
3903
3904
3905
M2006 (Aries)
M2008 (Aries)
M2009 (Aries)
M2018 (Aries)
M2216 (Aries)
M2316 (Aries)
M2616 (Aries)
M3110 (Orion)
M3310 (Orion)
M3820 (Orion)
M2250 (single extension only)
M3901 (Taurus)
M3902 (Taurus)
M3903 (Taurus)
M3904 (Taurus)
M3905 (Taurus)

Nortel Remote Office 9150

Nortel Norstar / BCM
7100
7208
7316
7310
7324
M7100
M7208
M7310
M7316
M7324
M7410
T7100
T7208
T7316
T7406 (wireless

Nortel SL100

Panasonic KX-TDA50
KX-DT343
KX-DT333
KX-DT346
KX-DT366
KX-T7431
KX-T7453
KX-T7630
KX-T 72xx
KX-T 73xx
KX-T 74xx
KX-T 75xx
KX-T 76xx

Philips IS3010
D622/S
D623/S
D624/S
D310/2
D320/2
D325/2
D330/2
D340/2
D622/2
D623/2
D624/2
D310/4
D320/4
D325/4
D330/4
D340/4
D622/S
D623/S
D624/S

Philips Sopho (2 Wire)
D310 /2 Ergoline mod 1 2-wire
D320 /2 Ergoline mod 2 2-wire
D325 /2 Ergoline mod 3 2-wire
D330 /2 Ergoline mod 3 2-wire
D340 /2 Ergoline mod 4 2-wire

Philips Sopho (4 Wire)
D622S
d623S
d624S
d310 / Ergoline mod 1 4-wire
d320 / Erogline mod 2 4-wire
d325 / Ergoline mod 3 4-wire
d330 / Ergoline mod 3 4-wire
d340 / Ergoline mod 4 4-wire
Sopho Operator Phone B630
Sopho Console Model 60E

Rockwell Spectrum
Spectrum 151

VERSADIAL®
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Supported Digital PBXs and Phone Models

Samsung DCS-828
DS-24SE-KTS
DCS-S1EW
DCS-S2EW
IDCS 8D
IDCS 18D
IDCS 28D

Samsung iDCS500 p
DS-5021D
DS-5038D

Samsung Inforex
DS-24SE-KTS
IDCS 8D
IDCS 18D
IDCS 28D

Samsung OfficeServ IAP

Selta SAEkey / SAE IPX
SAEFON CL08D
SAEFON CL16D
OP2 Attendant Console
SAEFON LE
SAEFON B
SAEFON T
SAEFON TK
SAEFON E

Selta SAE Instant Office / IPX
Netfon 200
Netfon 400

Siemens AC Win
AC Win MQ 3.0
AC Win

Siemens HiCom / Hi Path
optiPoint 410 entry
optiPoint 410 economy
optiPoint 410 economy plus
optiPoint 410 standard
optiPoint 410 advance
optiPoint 410S series **}
optiPoint 420 economy
optiPoint 420 economy plus
optiPoint 420 standard
optiPoint 420 advance
optiPoint 420S series **)
optipoint 600 office **)
OptiClient 130 S Softphone v4 hipath
OptiClient 130 S Softphone V5
OpenStage 20 **)
OpenStage 40 **)
OpenStage 60 **)
OpenStage 80 **)

Siemens Hicom 100E
Siemens Hicom 150E
Optiset E** advance
Optiset E** advance conf
Optiset E basic
Optiset E** standard
Optiset E entry
Optiset E basic
Optiset E standard
Optiset E comfort / advance plus
Optiset E conference
Optiset E memory
AC 3.0 / 4.0
ACWIN 3.0 / 4.0
OptiPoint 500 entry
OptiPoint 500 basic
OptiPoint 500 economy
OptiPoint 500 standard
OptiPoint 500 advance

Siemens Hicom 300E
Rolm Phone 240E
Rolm Phone 312L
Rolm Phone 400
Rolm Phone 240
Rolm Phone 624SL
Optiset Basic
Optiset Standard
Optiset Advanced
OptiPoint 500 entry
OptiPoint 500 economy
OptiPoint 500 basic
OptiPoint 500 standard
OptiPoint 500 advanced
Optiset E entry
Optiset E basic
Optiset E standard
Optiset E comfort / advance plus
Optiset E conference
Optiset E memory
AC 3.0 / 4.0
ACWIN 3.0 / 4.0
OptiPoint 500 entry
OptiPoint 500 basic
OptiPoint 500 economy
OptiPoint 500 standard
OptiPoint 500 advance

Siemens Hicom 330E
Optiset Basic
Optiset Standard
Optiset Advanced
OptiPoint 500 entry
OptiPoint 500 economy
OptiPoint 500 basic
OptiPoint 500 standard
OptiPoint 500 advanced
Advanced Conference DE
Standard DE
Optiset E entry
Optiset E basic
Optiset E standard
Optiset E comfort / advance plus
Optiset E conference
Optiset E memory
AC 3.0 / 4.0
ACWIN 3.0 / 4.0
OptiPoint 500 entry
OptiPoint 500 basic
OptiPoint 500 economy
OptiPoint 500 standard
OptiPoint 500 advance

Siemens Rolm 9751CBX
Rolm Phone 240E
Rolm Phone 312L
Rolm Phone 400
Rolm Phone 240
Rolm Phone 624SL
Rolm Phone 120

Siemens HiPath 3000 series
OptiPoint 500 advance
OptiPoint 500 basic
OptiPoint 500 entry
OptiPoint 500 standard

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Supported Digital PBXs and Phone Models

OptiPoint 500 standard SL
Optiset E advance conference
Optiset E basic
Optiset E standard
Optiset E entry
Optiset E basic
Optiset E standard
Optiset E comfort / advance plus
Optiset E conference
Optiset E memory
AC 3.0 / 4.0
ACWIN 3.0 / 4.0
OptiPoint 500 entry
OptiPoint 500 basic
OptiPoint 500 economy
OptiPoint 500 standard
OptiPoint 500 advance

Siemens HiPath 4000 series
OpenStage 10
OpenStage 20
OpenStage 40
OpenStage 60
OpenStage 80
Optiset Basic
Optiset Standard
Optiset Advanced
Optiset E**
OptiPoint 500 entry
OptiPoint 500 economy
OptiPoint 500 basic
OptiPoint 500 standard
OptiPoint 500 advanced
Advanced Conference DE
Standard DE
Optiset E entry
Optiset E basic
Optiset E standard
Optiset E comfort / advance plus
Optiset E conference
Optiset E memory
AC 3.0 / 4.0
ACWIN 3.0 / 4.0
OptiPoint 500 entry
OptiPoint 500 basic
OptiPoint 500 economy
OptiPoint 500 standard
OptiPoint 500 advance

ProfiSet 71

Siemens Realitis DX
D60
D70
DT50
iSDT 300+
Multiline 8
Multiline 15

Tecom DX1688
DU8812D

Telkom Opticon Series
LKD 8DS
Telrad IS (2 wire)

Tadicom (Tadiran) Coral
DKT2320
DKT-E 1110
DKT-E 2320
DKT-E 2311
DKT-E 2321
DKT-E 2322
DST-E
FLEXSET 120 series
FLEXSET 121S series
FLEXSET 280 series
FLEXSET 281S series

Toshiba DK
DKT3010-SD
DKT3020-S
DKT2010-SD
DKT2020-S
DKT2020-SD
DKT2030-S

Toshiba Strata CTX
DKT3010-SD
DKT3020-S
DKT3220
DKT2010-SD
DKT2020-S
DKT2020-SD
DKT2030-S
DKT2501
DKT2510
DKT2520
DKT3010
DKT3020
DKT35xx
DKT-3512F-SD
DKT-3510P-SD
DKT-3220-SD
DKT-3510P-S
DP 5132-SD#
DP-5022#

Supported phones added frequently. If your PBX is not shown in current list please call a Versadial Account Manager.

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Supported VoIP PBXs and Phone Models

Alcatel OmniPCX (OXO / OXE)
IP Touch 4008
IP Touch 4018
IP Touch 4028
IP Touch 4038
IP Touch 4068
4004 IP e-Reflexes
4010 IP e-Reflexes Easy / D351 IP
4020 IP e-Reflexes Premium / D352 IP
4022 IP e-Reflexes Premium (4020 + HW)
4035 IP e-Reflexes Advanced / D354 IP
4037 IP e-Reflexes Advanced (4035 + HW)
PIMphony (Basic / Pro / Team)
4980 Softphone

Avaya IP Office/Multi Vantage/CM/ AES/One-X
1603 IP series One-X
1608 IP series One-X
1616 IP series One-X
2402 IP
2410 SW IP
2420 SW IP
4602 IP
4610 SW IP
4612 IP
4620 IP
4621 SW IP
4622 SW IP
4624D
4625 IP
4630 SW IP
4690 IP Speakerphone
5402 SW IP
5410 SW IP
5420 SW IP
5601 IP
5602 IP
5610 IP
5620 IP
9610 IP One-X
9620 IP One-X
9630 IP One-X*)
9640 IP One-X*)
9650 IP One-X*)

Cisco CallManager
69xx
7902G
7905G
7906G
7910G
7912G
7920 Wireless
7935 Conference Station
7936 Conference Station
7937 Conference Station
7940G
7941G/GE
7942G
7945G
7960G
7961G/GE
7962G
7965G
7970G
7971G-GE
7975G
7980
7985G-GE
H323/H225

Ericsson MD110/MX-One
Dialog 4420 IP Basic
Dialog 4422 IP Office
Dialog 4425 IP Vision

Mitel 3300 MX/LX
5201 IP Phone
5207 IP Phone
5215 IP Phone (Dual Mode)
5220 IP Phone (Dual Mode)
5230 IP Phone
5235 IP Phone
5240 IP Phone

NEC-Phillips NEAX/IPS/IPC/IS/IV
Dterm IP / ITR 4D
Dterm IP / ITR 8D
Dterm IP / ITR 16D/16LD
Dterm IP / ITR 32D

Nortel BCM/M1/Succession
IP Phone 2007
IP Phone 1150EIP
Phone 8501 (LG/Nortel)
Headset 8502 (LG/Nortel)
IP Phone 8540 (LG/Nortel)
IP Phone 2001
IP Phone 2002
IP Phone 2004
IP Phone 2008
IP Phone 1110
IP Phone 1120E
IP Phone 1140E
IP Audio Conference Phone 2033
IP Softphone 2050
Mobile USB Headset Adapter for IP Softphones
Mobile Voice Client 2050
WLAN Handset 2210
WLAN Handset 2211

SELTA SAEkey/IPX
SAEFON CLI76D

Siemens Hicom/HiPath
optiPoint 410 economy
optiPoint 420 economy
optiPoint 420 standard
optiPoint 420 advance

VOIP SIP

SIP
Siemens Openstage 20/40/60/80

Vodavi 3500-01
3012-71
3015-71

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